

### Claims

1. Method of controlling the transmission power used in a digital radio link in a system where a base station and a personal station are parties to the radio connection and during operation between them either party may send a power control command, which will change the transmission power of the other party,

characterized in that

when the transmission rate of the first party changes it will inform the second party of the new rate,

in response to the message the second party changes the power control command to be sent to the first party to be in accordance with the new rate,

the first party changes the reception of its own power control command to be in accordance with the new rate.

2. Method as defined in claim 1, characterized in that when the transfer rate of the second party changes:

the first party will change the power control command to be sent to the second party,

the second party will change the reception of its own power control command.

3. Method as defined in claim 1, characterized in that the power control command is formed of power control commands and when the transmission rate of the first party becomes slower the second party will lower the frequency of power control commands to be sent to the first party and, correspondingly, when the transmission rate becomes higher, the second party will increase the frequency of power control commands.

4. Method as defined in claim 1, characterized in that the power control command is formed of power control commands of several bits and when the transmission rate of the first party is lowered, the second party will shorten the length of the power control command and, correspondingly, when the transmission rate becomes higher the second party will extend the length of the power control command.

5. Method as defined in claim 1, characterized in that the power control command is formed of power control commands and when the transmission rate of the first party is lowered, the second party will lower the energy of power control commands to be sent to the first party and,

Sub  
Bt  
F  
001551 00338  
S6660 7625160

[illegible]

10

15

20

25

add  $E'$   
add  $F'$

11. Method as defined in claim 1 ~~or 2~~, characterized in that  
the power control command in one direction is changed in reverse proportion  
25 to the load of the opposite transfer direction.